

CLAIMS

What is claimed is:

1. A method of recycling waste comprising:
obtaining a waste material resulting from the manufacture of a first product; and
utilizing the obtained waste material as an air entraining admixture in the production
of a second product.
2. The method of claim 1 wherein the waste material is a liquid.
3. The method of claim 2 wherein the waste material has a pH greater than 8.0.
4. The method of claim 2 wherein the waste material has a BOD greater than 1000
mg/L.
5. The method of claim 2 wherein the waste material comprises water, at least one
surfactant, and at least one fragrance.
6. The method of claim 1 wherein the waste material causes foaming in aeration tanks of
treatment plants.
7. The method of claim 1 wherein the waste material is a soap or shampoo.
8. The method of claim 1 wherein the first product is a soap or shampoo.
9. The method of claim 1 wherein the first product is a product adapted to be used to
wash a person's skin or hair.
10. The method of claim 1 wherein the second product comprises cement, and the waste
material is used in formation of at least some of the clinker used in the cement.
11. The method of claim 10 wherein the waste is added during finish grinding of the
clinker.
12. The method of claim 1 wherein the second product comprises concrete, and the waste
material is mixed with cement and water to form the concrete.

13. The method of claim 1 wherein the second product comprises concrete, and substantially all of the water in the concrete is water from the waste material.
14. The method of claim 1 wherein the waste material comprises at least one of the following: materials not meeting specifications, expired product, and discontinued product.
15. The method of claim 1 wherein the waste materials comprises rinse water used in purging of lines, clean-up operations, and rinsing of equipment and tanks.
16. The method of claim 1 wherein the method comprises:
obtaining a waste material resulting from the manufacture of a shampoo, the waste material comprising essentially shampoo or diluted shampoo; and
utilizing the obtained waste material as an air entraining admixture in the production of a concrete comprising clinker and water, the waste material being added to the concrete either as part of the clinker or as an ingredient in addition to the clinker and water.
17. A cement product comprising a waste material generated during the manufacture of a first product as an air entraining admixture.
18. The cement product of claim 17, the product comprising a cement wherein the amount of waste material is 0.05% to 0.75% of the amount of cement clinker on a weight to weight basis of the cement.
19. The cement product of claim 17 wherein the cement product is concrete.
20. The concrete of claim 19 wherein the amount of waste materials is 0.05% to 3% of the amount of cement on a weight-to-weight basis used in the concrete.
21. The concrete of claim 19 wherein the amount of waste materials is 5% to 20% of the amount of cement on a weight-to-weight basis used in the concrete.
22. The cement product of claim 17 wherein the cement product is a concrete structure.

23. The cement product of claim 17 wherein the cement product is cement comprising calcined shampoo waste.
24. The cement product of claim 17 wherein the cement product is concrete comprising shampoo waste.